

NO DISCHARGE ZONE APPLICATION



October 5, 2010

Richmond County Creeks Affected



WHY No Discharge Zones?



Virginia House Bill 1774 (March 27, 2009)

Farnham Landing

Farnham Creek

Legend



Proposed No Discharge Zone



Proposed No Discharge Zone
Boundary

-76.682
37.826

-76.68
37.825



Lancaster/Morattico



Simonson
Landing

Whelans
Marina

Baltimore County
Lancaster County

-76.652
37.796

-76.635
37.790

WATER QUALITY ISSUES



Virginia Department of Health's
Division of Shellfish Sanitation

Virginia Department of Health
Farnham Creek and Vicinity
Condemned Shellfish Area Number 024-070
16 December 2009

0 1,250 2,500 5,000
Feet



Condemned Shellfish Areas
(Sections A - C)

Section
B

(37°49'44.2", -76°42'34.5")
(37°49'37.4", -76°42'30.3")
(37°49'34.5", -76°42'23.7")

Section
C

(37°49'38.4", -76°40'41.9")

Section
A

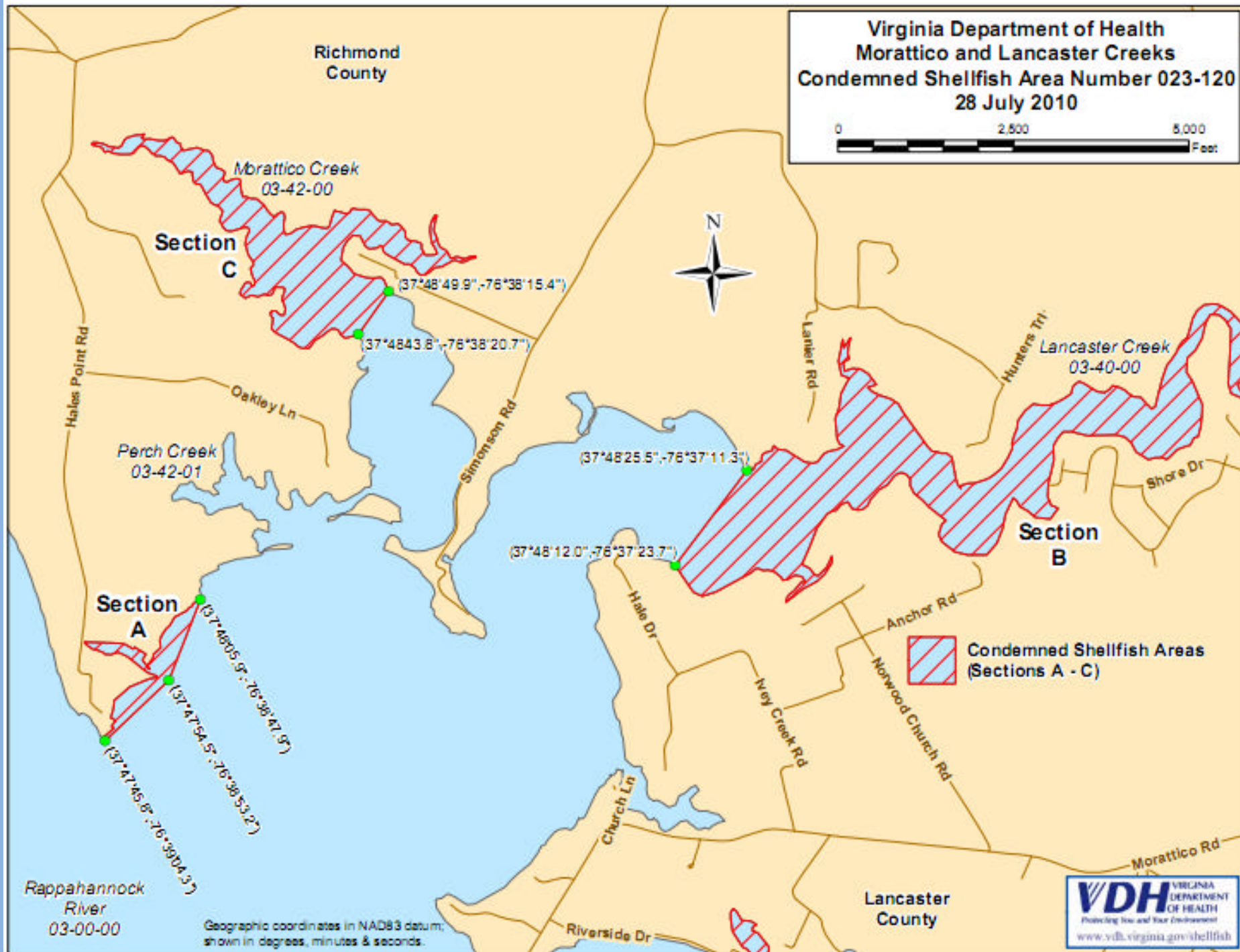
Farnham
Creek
03-44-00

Rappahannock
River
03-00-00

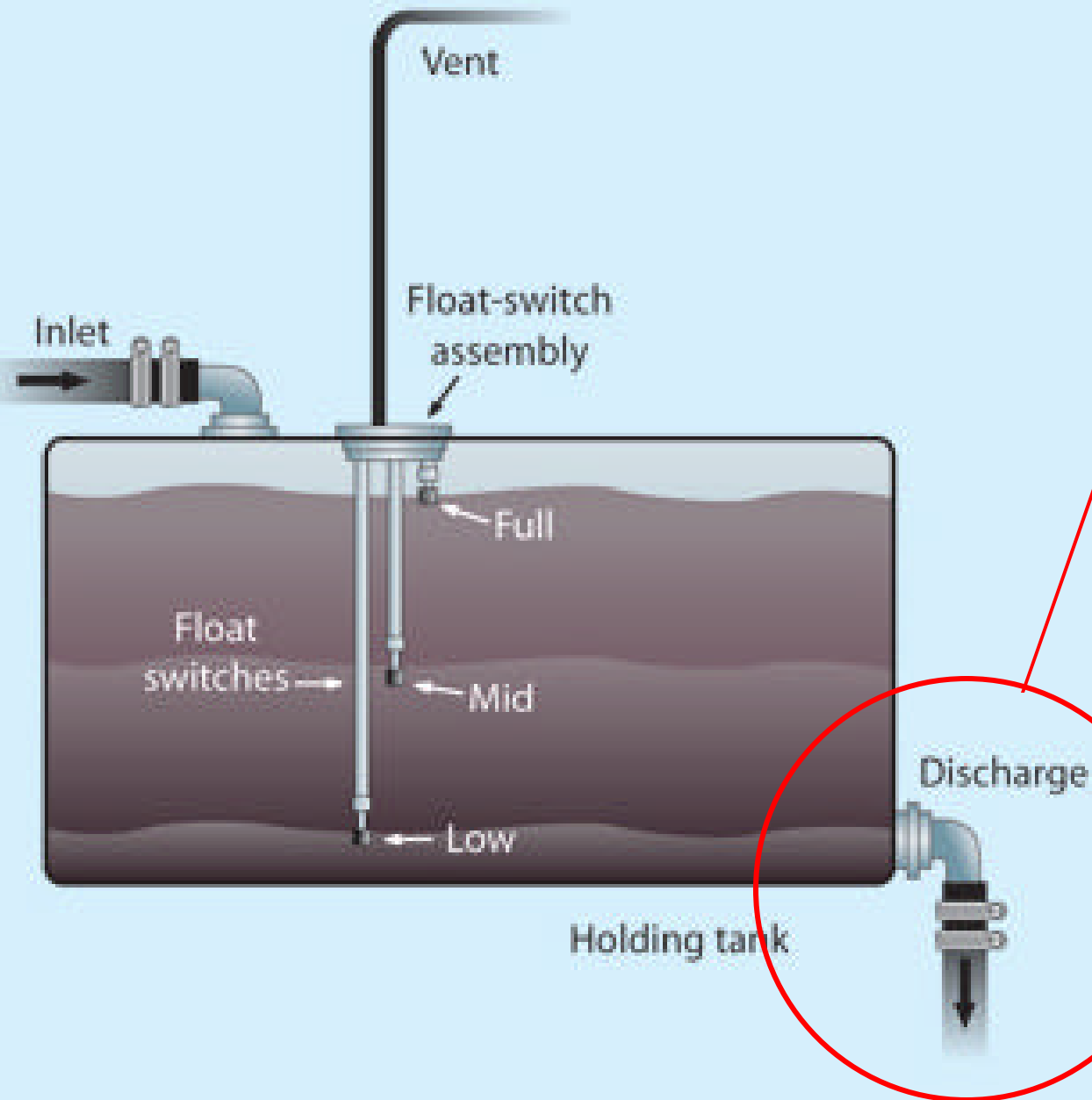
Geographic coordinates in NAD83 datum;
shown in degrees, minutes & seconds.

Virginia Department of Health
Morattico and Lancaster Creeks
Condemned Shellfish Area Number 023-120
28 July 2010

0 2,500 5,000
Feet



Boat's Treated Wastewater Discharge



100 to more
than 1,000
MPN/100ml

National
Shellfish
Standard:
14 MPN or less

AVAILABILITY OF FACILITIES



NUMBER OF VESSELS THAT WILL NEED FACILITIES

DATA SOURCES

- Field surveys conducted by the NNPDC and submitted by marina operators
- Department of Game and Inland Fisheries (vessel registration database)*
- Virginia Department of Health, Division of Waste Water Engineering (marina database)
- Federally-documented vessels (U.S. Coast Guard)*



NUMBER OF VESSELS THAT WILL NEED **PUMPOUT** FACILITIES

Estimate of Required Pumpout Facilities	
Number of vessels 27-40 ft. in length	24
Enter % of 27-40 ft. vessels with holding tanks in Virginia ***	25%
Estimated number of 27-40 ft. vessels with holding tanks	6
Enter the number of vessels greater than 40 ft. in length	1
Estimated total number of vessels with holding tanks	7
Estimated peak occupancy rate (i.e. on a holiday weekend; if unknown, use 40%)	40%
Estimated number of vessels requiring pumpout facilities	3
Average number of vessels served per hour at pumpout (if unknown, use 4/hr)	4
Average number of hours of operation per weekend (if unknown, use 24 hrs.)	24
Estimated number of vessels served per pumpout facility	96
Estimated number of pumpout facilities required	0.03

NUMBER OF VESSELS THAT WILL NEED **DUMP STATION** FACILITIES

Estimate of Required Dump Stations	
Number of vessels 16-26 ft. in length	841
Enter % of 16-26 ft. vessels with portable toilets in Virginia ***	37%
Estimated number of vessels with portable toilets	312
Estimated peak occupancy rate (if unknown, use 40%)	40%
Estimated number of vessels requiring dump stations	125
Average number of vessels served per hour at dump station (if unknown, use 12/hr)	12
Average number of hours of operation per weekend (if unknown, use 24 hrs.)	24
Estimated number of vessels served per dump station	288
Estimated number of dump stations required	0.43

AVAILABILITY OF FACILITIES

Whelan's Marina & Campground
3993 Hales Point Rd.
Farnham, VA 22460
804-394-9500

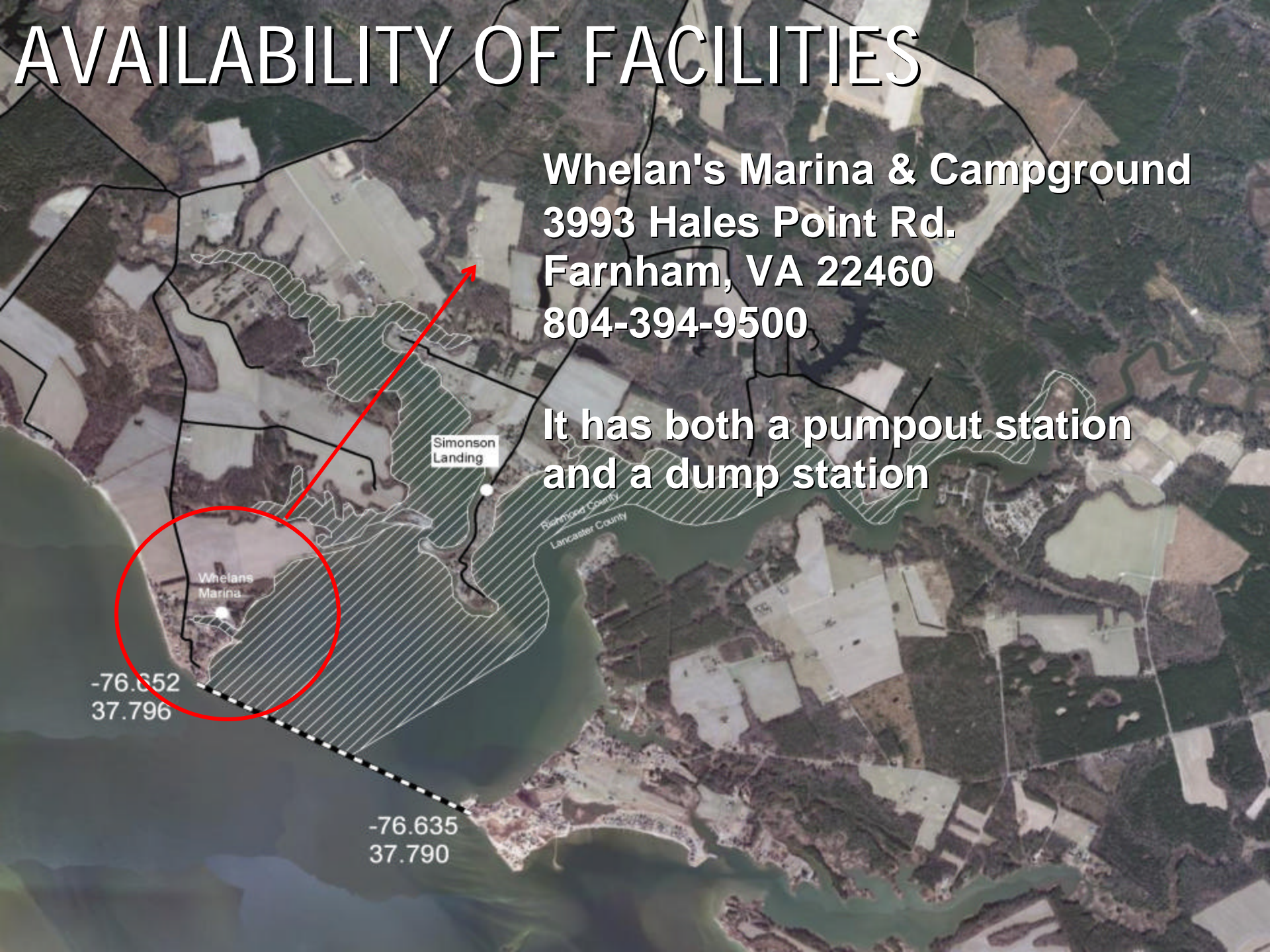
**It has both a pumpout station
and a dump station**

Simonson
Landing

Whelans
Marina

-76.652
37.796

-76.635
37.790



SUMMARY

- Creeks compromised by bacterial impairment, low dissolved oxygen, and conditions that impair growth of aquatic plants
- Creeks fail to meet water-quality standards
- Pumpout facilities and dump stations available to serve the estimated vessel population using these creeks
- NDZs protect low-flushing tidal tributaries
- Virginia's Department of Environmental Quality deems the creeks excellent candidates for No Discharge Zone designation

QUESTIONS?



Virginia Department of Environmental Quality

629 East Main Street
P.O. Box 1105
Richmond, VA 23218
804.698.4000
www.deq.virginia.gov



The Northern Neck Planning District Commission

P.O. Box 1600
Warsaw, Virginia 22572
804.333.1900
www.nnpdc.org